

SIALON FLUORESCENT MATERIAL AND METHOD FOR PRODUCING THE SAME

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PROBLEM TO BE SOLVED: To provide a fluorescent material without having brightness reduction by solving a problem such that conventional fluorescent material is excited by the irradiation of an exciting source such as light or an electric beam having a high energy and emits light, and as a result, the brightness of the fluorescent material decreases.

SOLUTION: The subject method for producing a sialon fluorescent material exhibiting a high brightness is provided by preparing a metal compound mixture capable of constituting the sialon fluorescent material containing a metal element M (M is ≥ 1 kind selected from the group consisting of Li, Ca, Mg, Y and lanthanide metals) by burning, and burning the mixture by keeping $\geq 2,000$ [deg.]C and $\leq 2,400$ [deg.]C temperature range under nitrogen atmosphere of ≥ 0.2 MPa and ≤ 100 MPa.

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